

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
13 May 2004 (13.05.2004)

PCT

(10) International Publication Number
WO 2004/040467 A1

(51) International Patent Classification⁷: G06F 17/00

(21) International Application Number:
PCT/KR2003/002322

(22) International Filing Date: 31 October 2003 (31.10.2003)

(25) Filing Language: Korean

(26) Publication Language: English

(30) Priority Data:
10-2002-0067416
1 November 2002 (01.11.2002) KR

(71) Applicant (for all designated States except US): LG ELECTRONICS, INC. [KR/KR]; 20, Yoido-dong, Youngdungpo-gu, Seoul 150-875 (KR).

(72) Inventors; and

(75) Inventors/Applicants (for US only): SHIN, Hee Sook

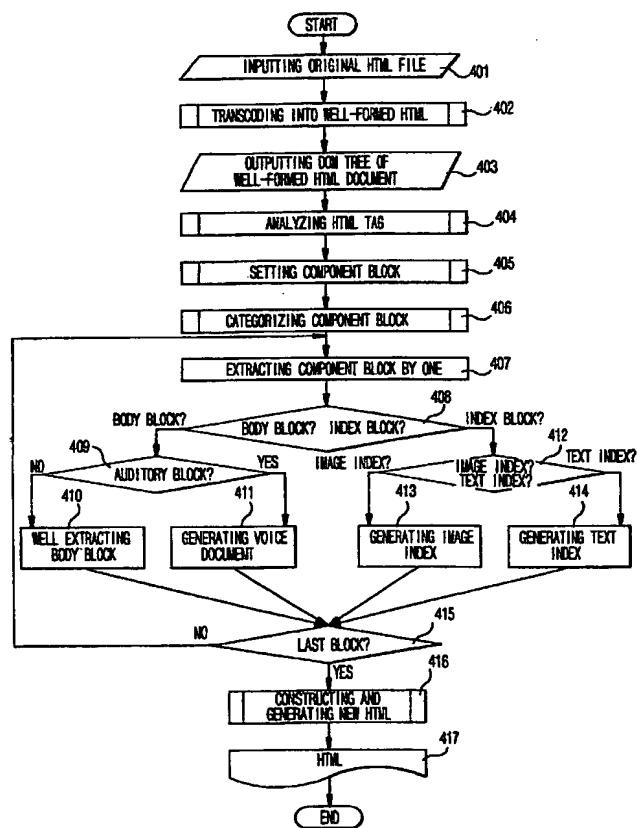
[KR/KR]; 241-22 Namsan 2-Dong, Choong-Gu, Taegu 700-442 (KR). LEE, Dong Woo [KR/KR]; 118-1209 Hwangsil Apt., Wallpyeong-Dong, Seo-Gu, Taejon 302-792 (KR). MAH, Pyeong Soo [KR/KR]; 3-201 Town House, 391 Doryong-Dong, Yusong-Gu, Taejon 305-340 (KR). KIM, Bumho [KR/KR]; 2-102 Myung Villa, 541-3 Bangbae3-Dong, Seocho-Gu, Seoul 137-060 (KR). CHO, Soo Sun [KR/KR]; 138-708 Hanbit Apt., Eoeun-Dong, Yusong-Gu, Taejon 307-755 (KR). HAN, Dong Won [KR/KR]; 107-1008 Nuri Apt., Wallpyeong-Dong, Seo-Gu, Taejon 302-791 (KR). CHOI, Eunjeong [KR/KR]; 719-8 Sunggun-Dong, Kyungju, Kyungsangbook-Do 780-180 (KR).

(74) Agent: HAW, Yong-Noke; 8th Fl., Songchon Bldg., 642-15 Yoeksam-dong, Kangnam-ku, Seoul 135-080 (KR).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE,

[Continued on next page]

(54) Title: WEB CONTENT TRANSCODING SYSTEM AND METHOD FOR SMALL DISPLAY DEVICE



(57) Abstract: Disclosed is a web content converting system and method for converting a large display screen web document into a small display screen web document. The system can include a preprocessor for standardizing a web document for analysis; a client profile analyzer for extracting and managing client information; a structure analyzer; and image converter for extracting information on an image encoding/decoding procedure and an image size; a component block extractor for grouping the set content unit piece (component) to similar groups within a range not exceeding a maximal width; a component block categorizer for categorizing each of component block extractor into index and body content portions; an index generator; a voice markup generator; and a HyperText Markup Language (HTML) generator.



GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— *with international search report*

(84) **Designated States (regional):** ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.